

FIG. 1



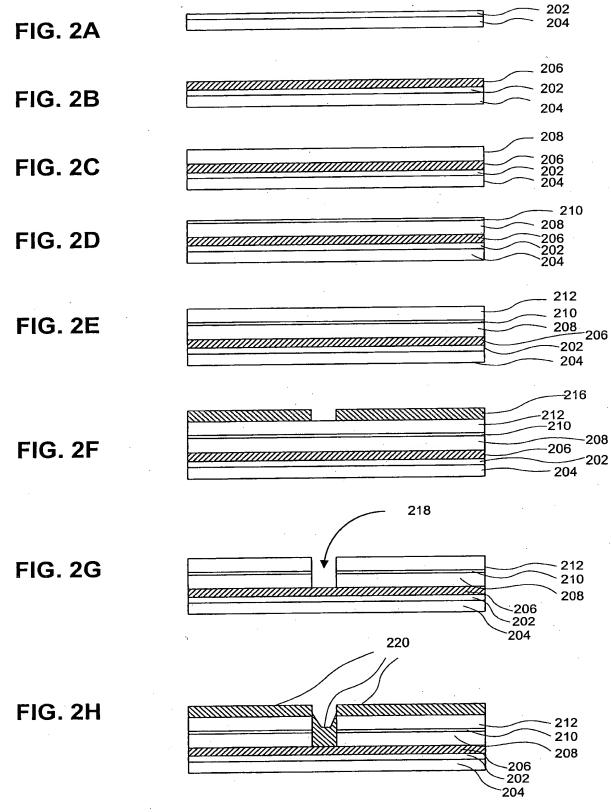
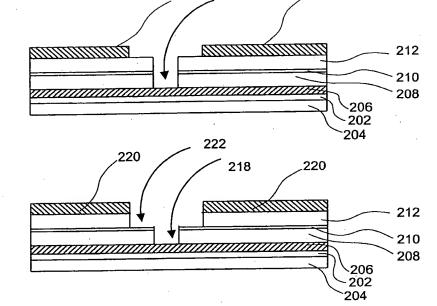




FIG. 21



220

218

220

FIG. 2J



FIG. 2F'

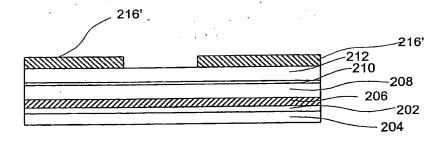


FIG. 2G'

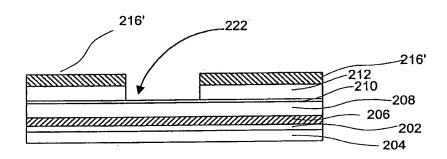


FIG. 2H'

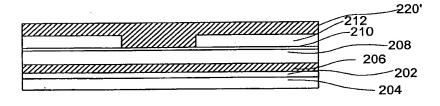
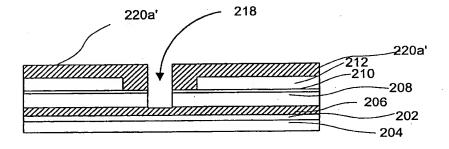
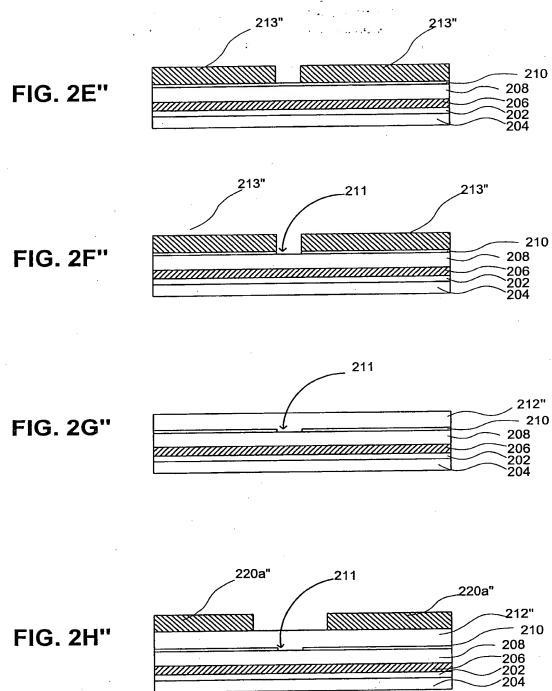


FIG. 21'







Resist poisoning using std. N incorporated SiC barrier film After trench patterning

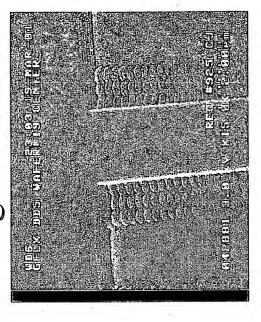
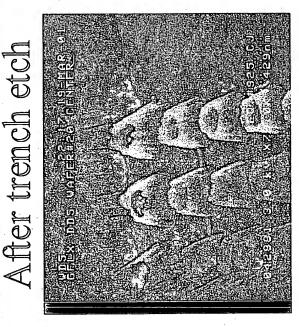


FIG. 3B



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FIG. 3A



Resist poison was solved by using 2-layer barrier stack in which top layer is N free.

